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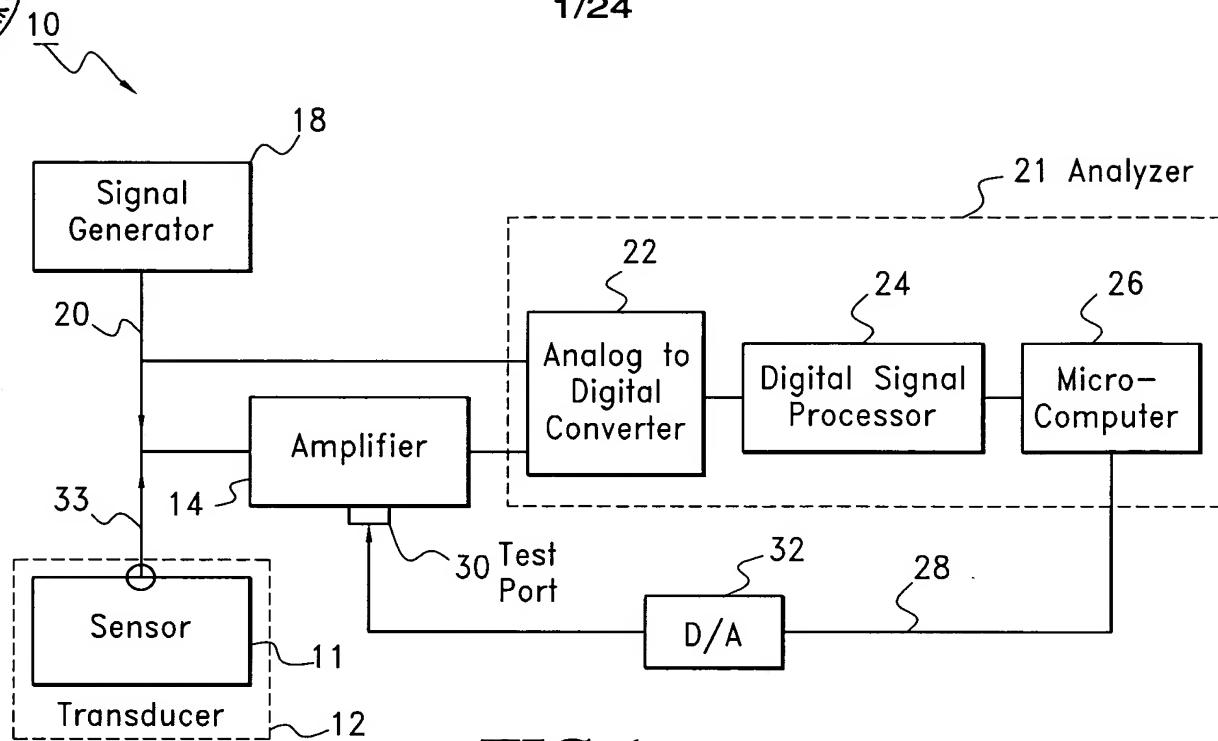


FIG.1

The block diagram of the sensor self-test system.

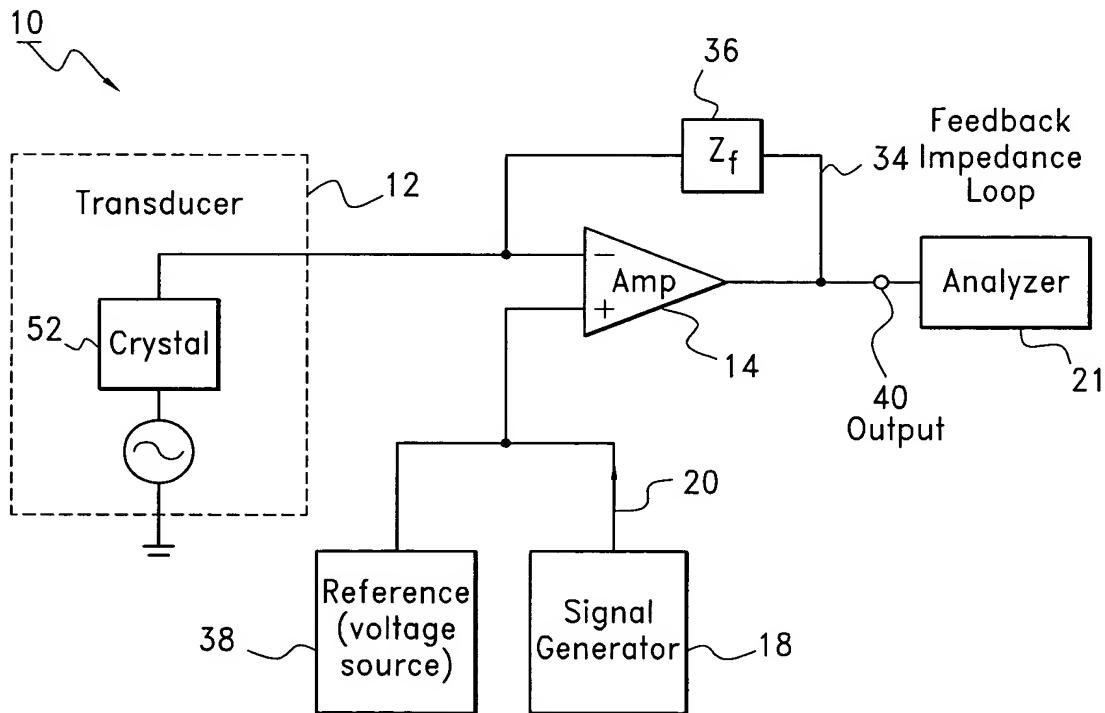


FIG.2

Generic amplifier self-test configuration.

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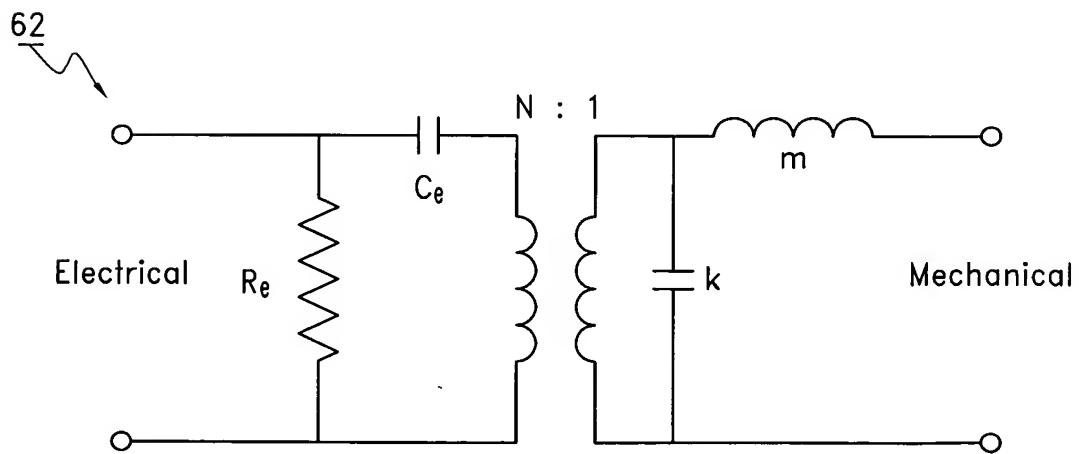
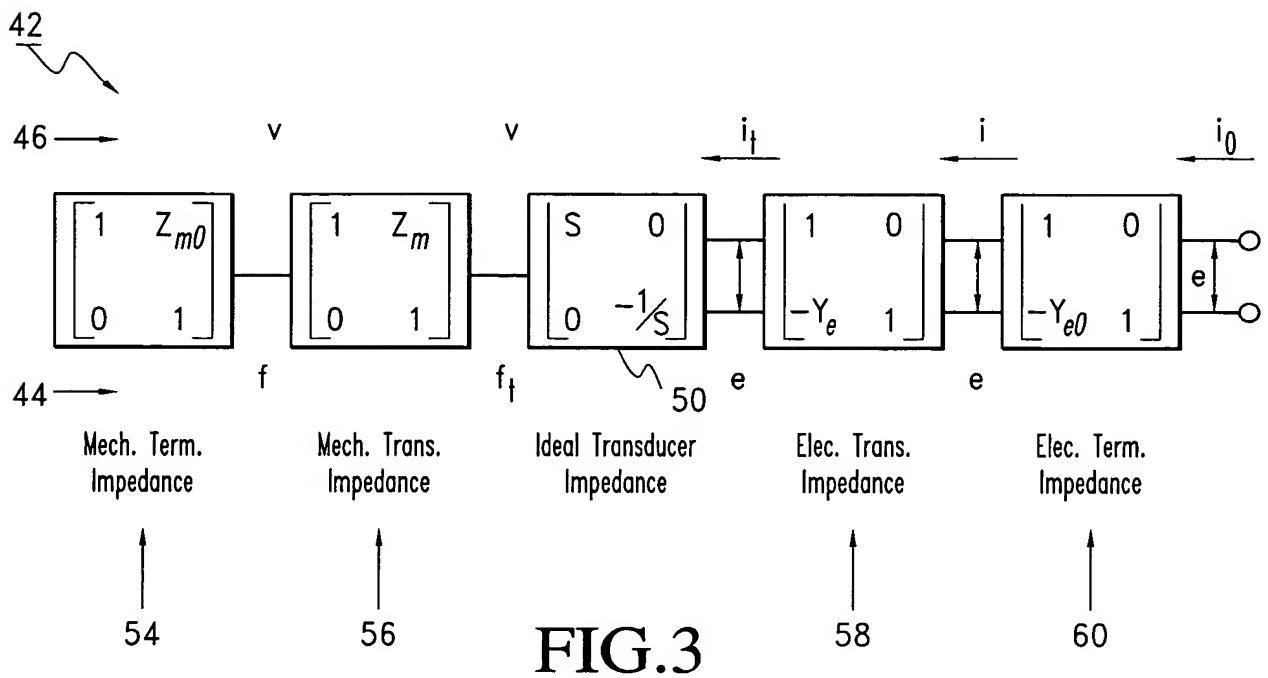


FIG. 4

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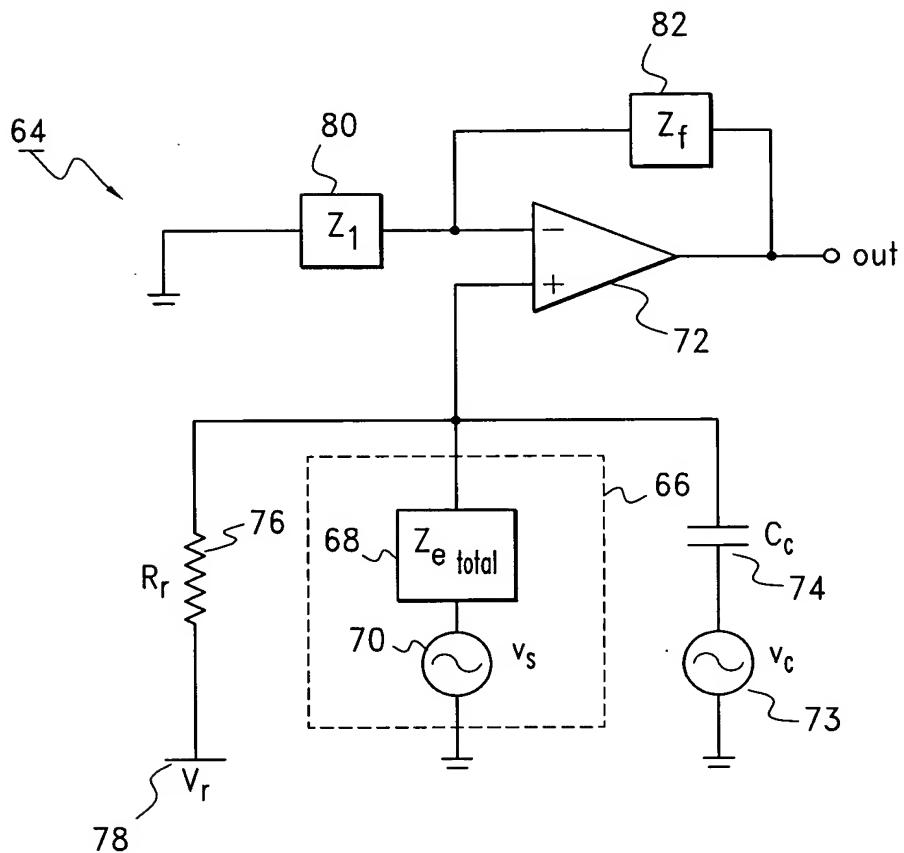


FIG.5
Three wire voltage mode self-test circuit.

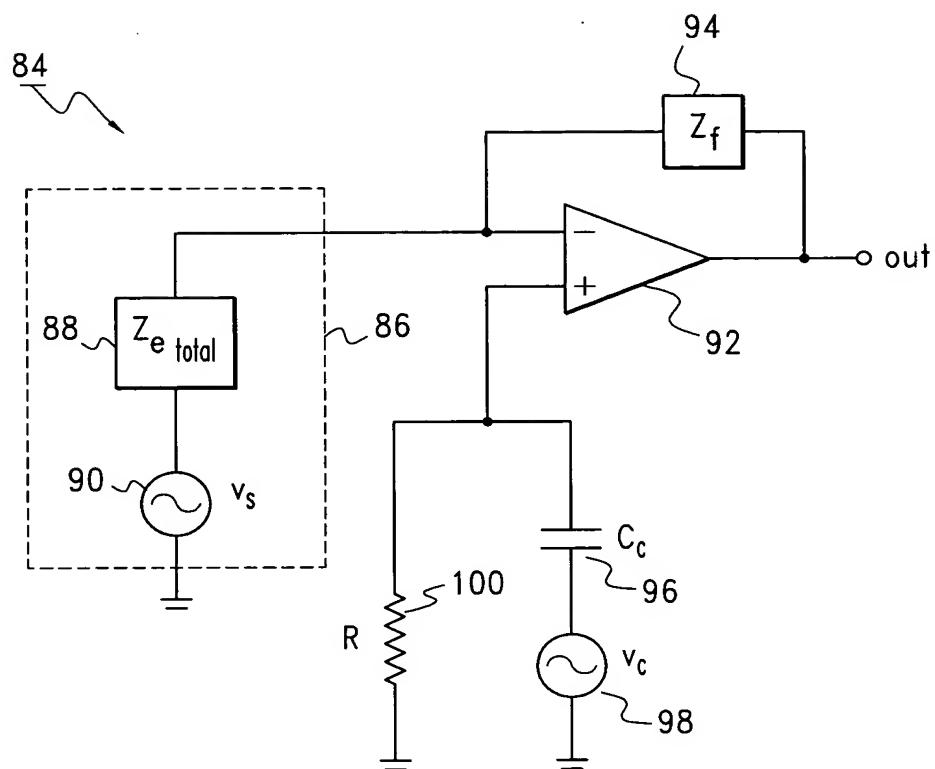


FIG.6
Three wire charge amplifier.

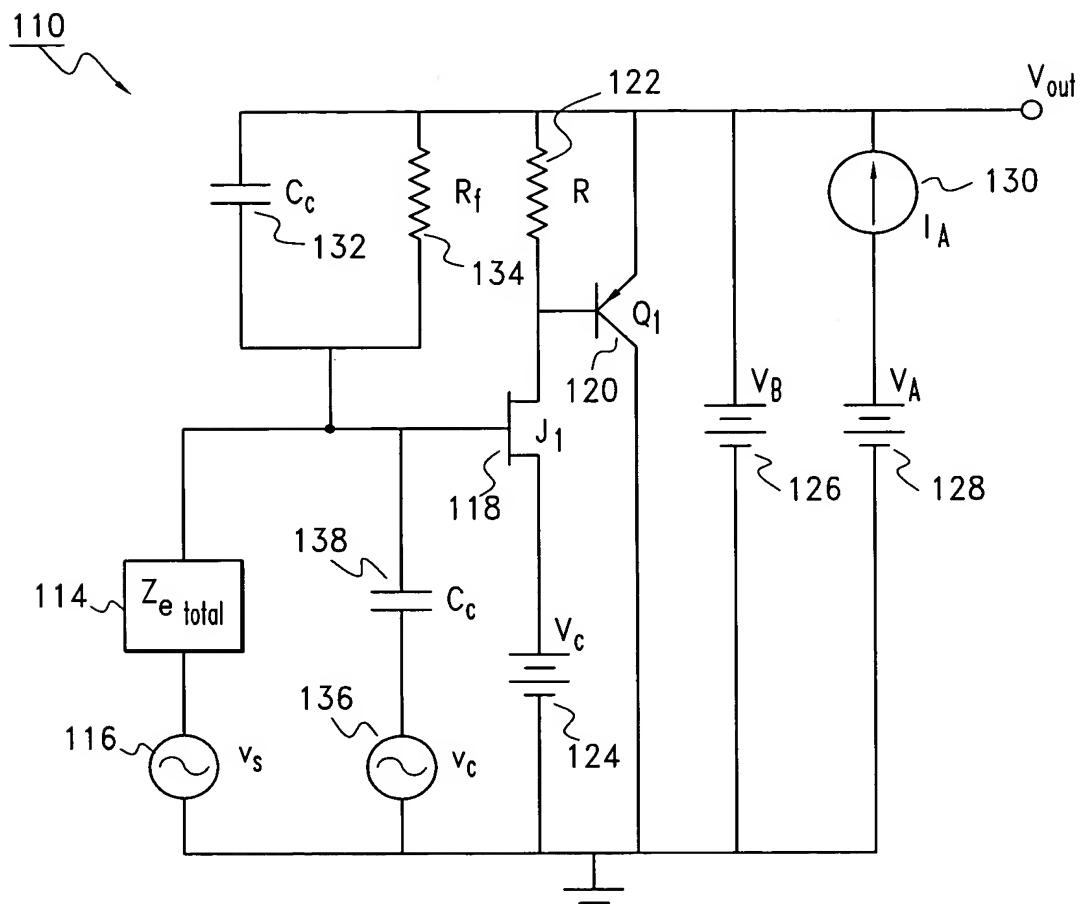


FIG.7

The two-wire charge mode preamplifier with self-test feature.

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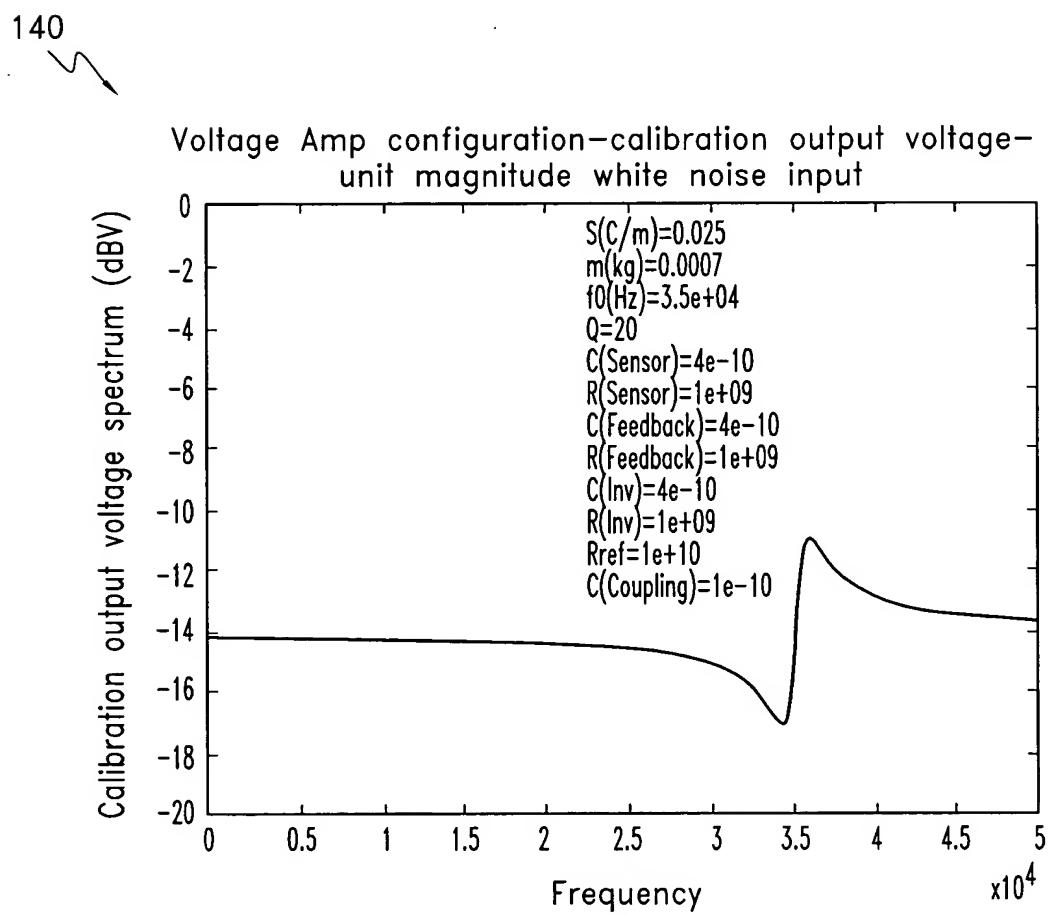


FIG.8

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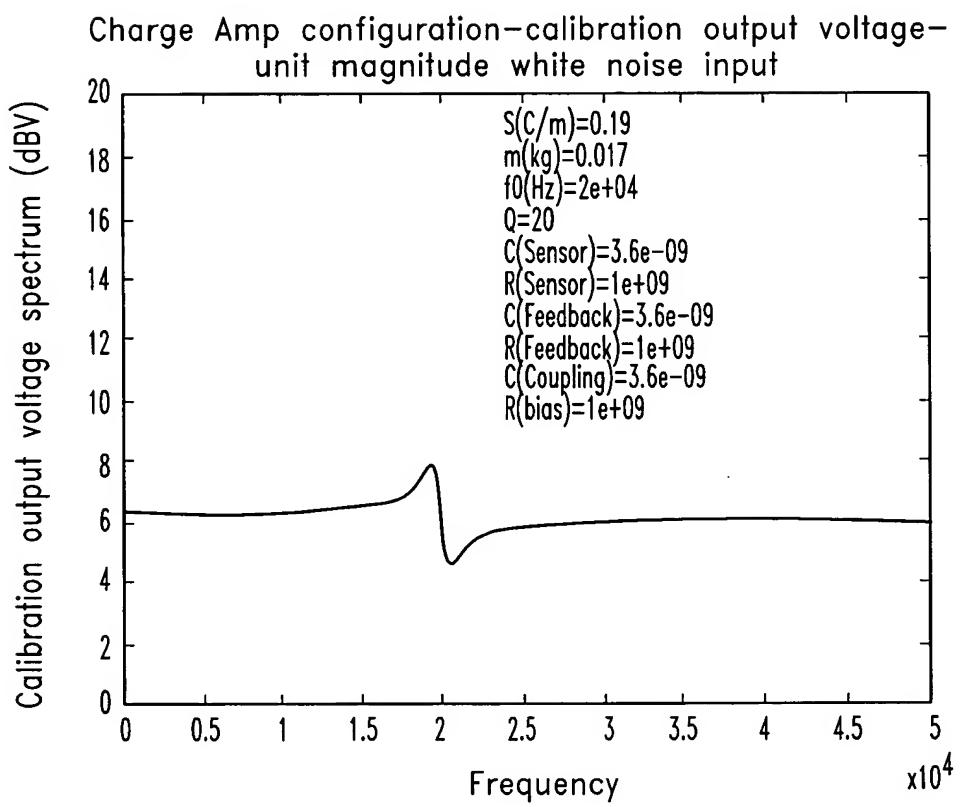


FIG.9

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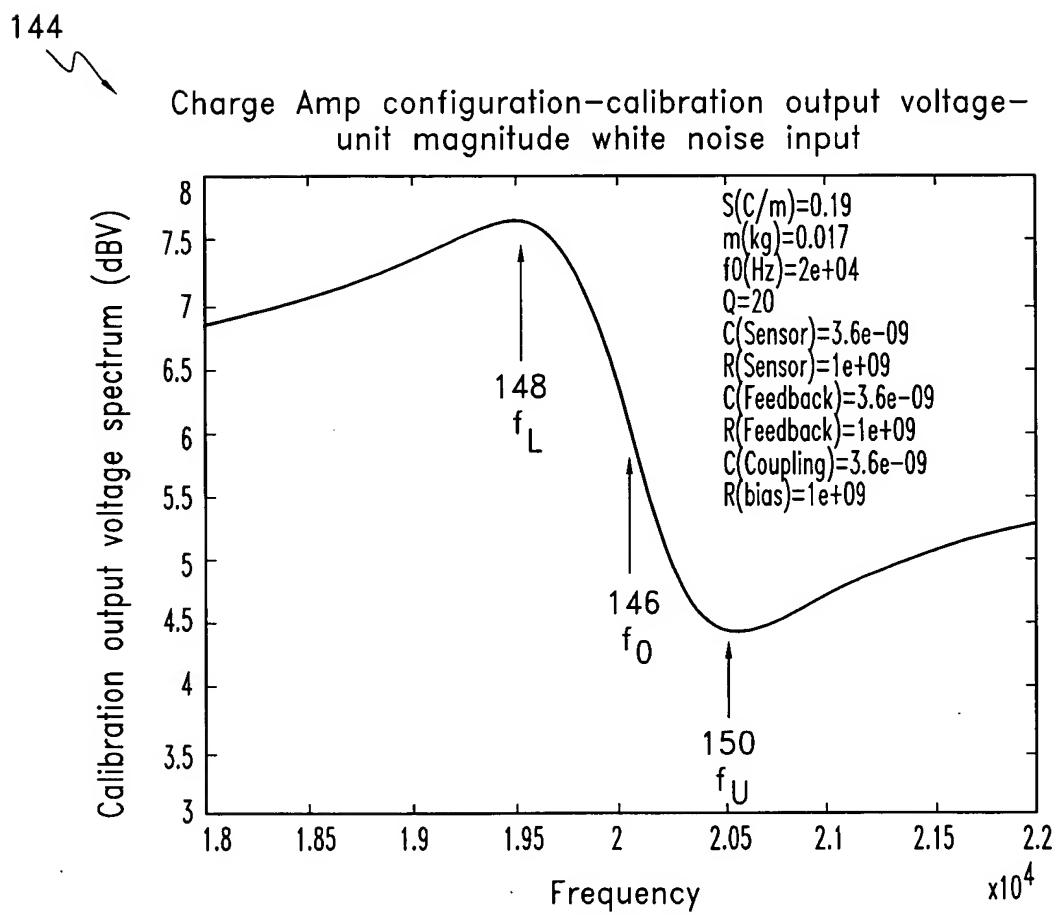


FIG.10

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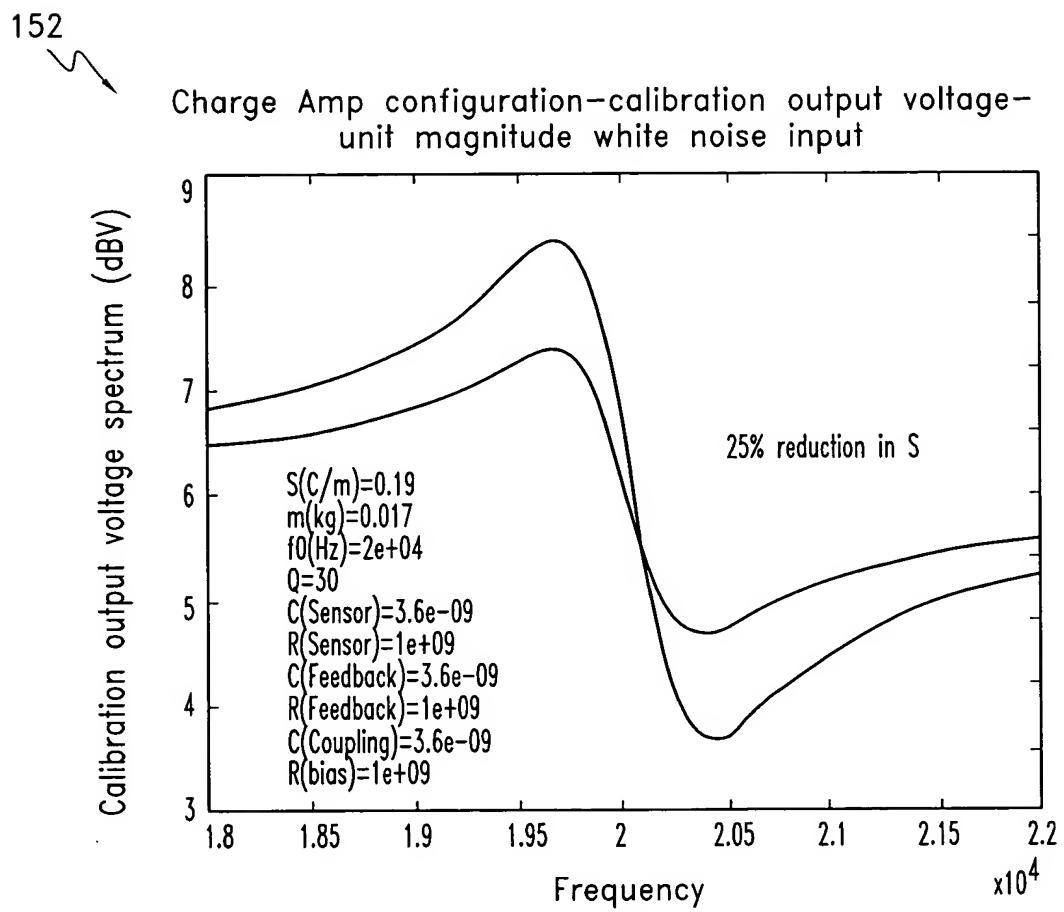


FIG.11

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Charge Amp configuration—calibration output voltage—
unit magnitude white noise input

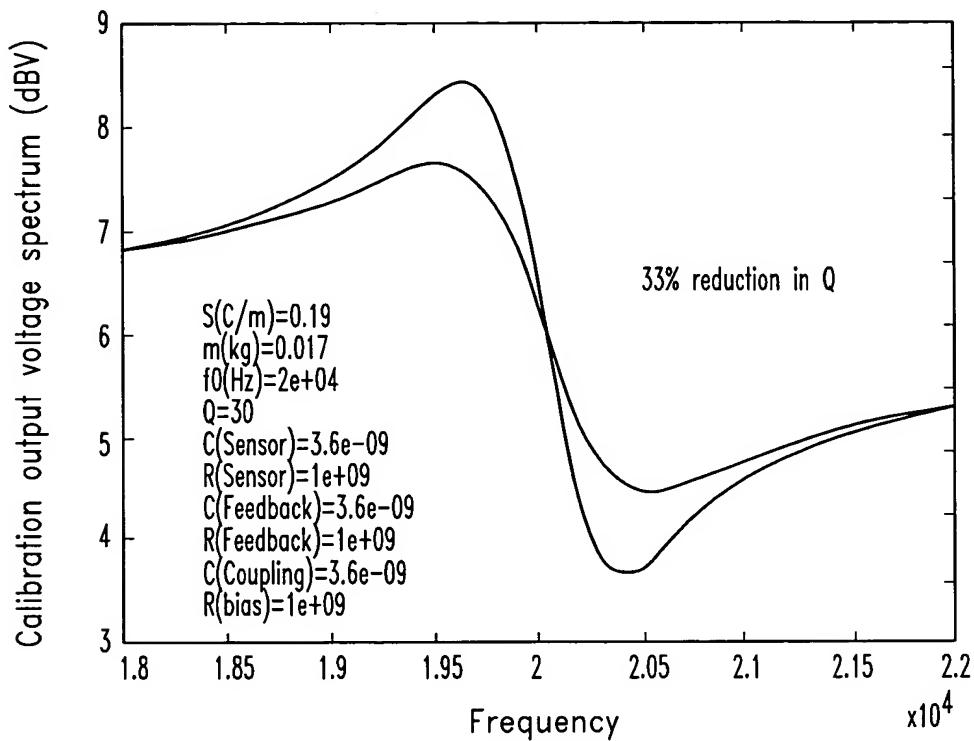


FIG.12

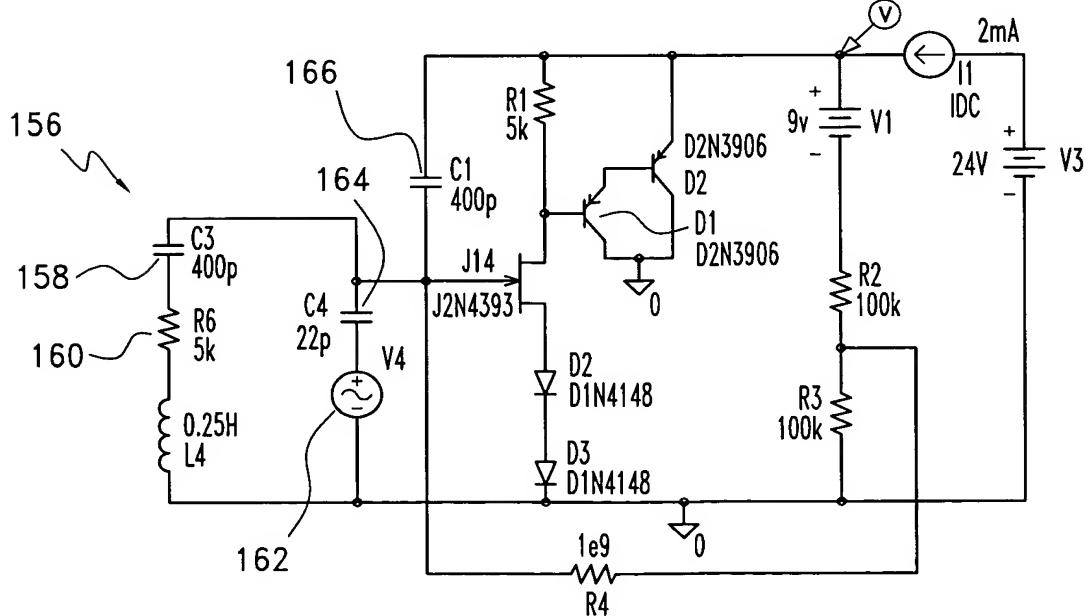


FIG.13

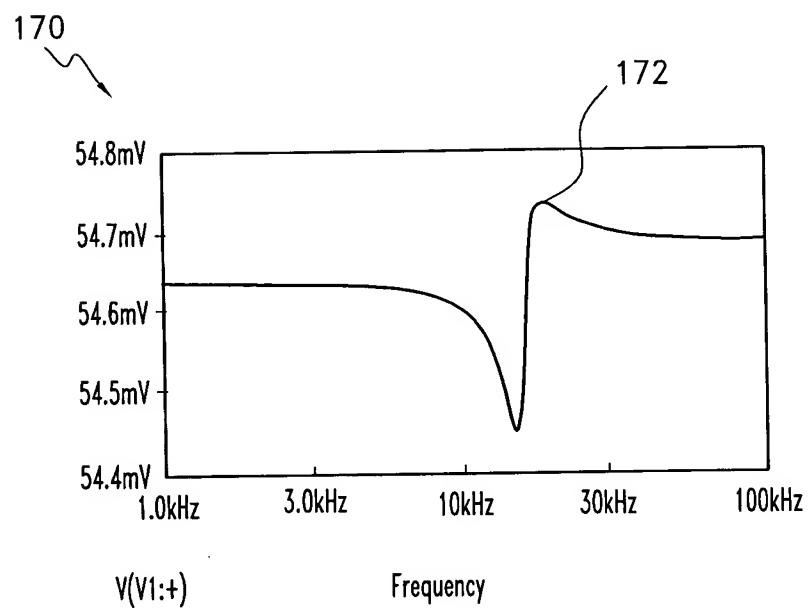


FIG.14

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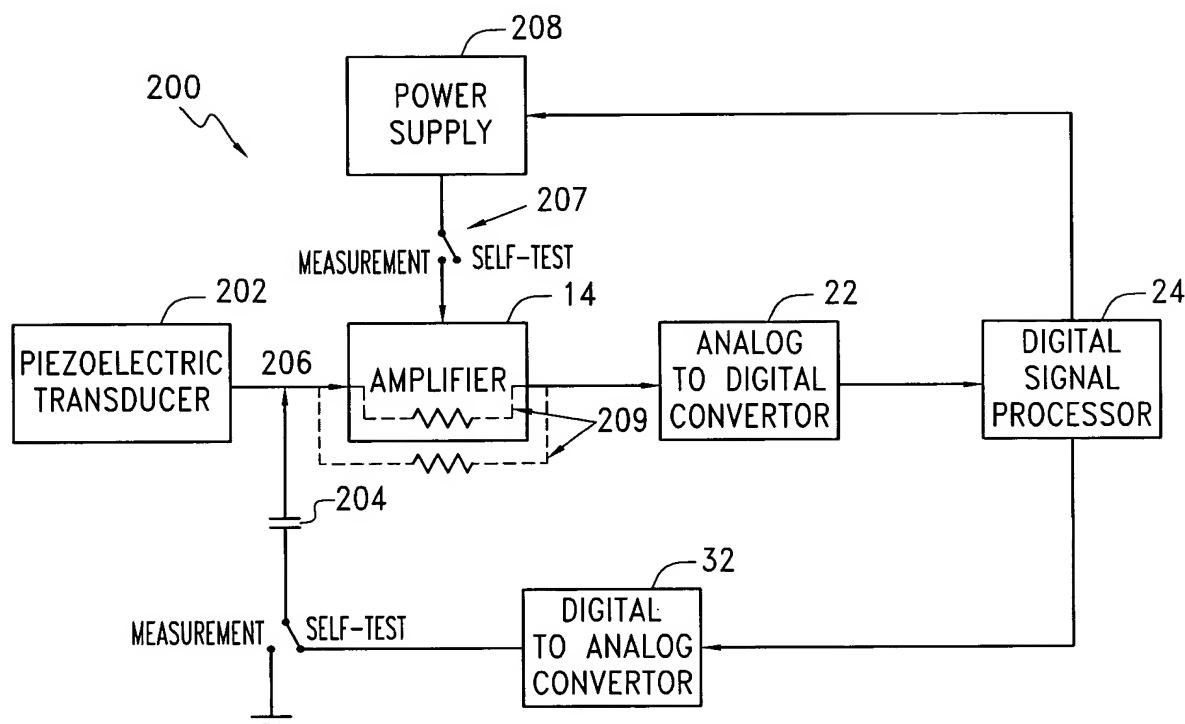


FIG.15

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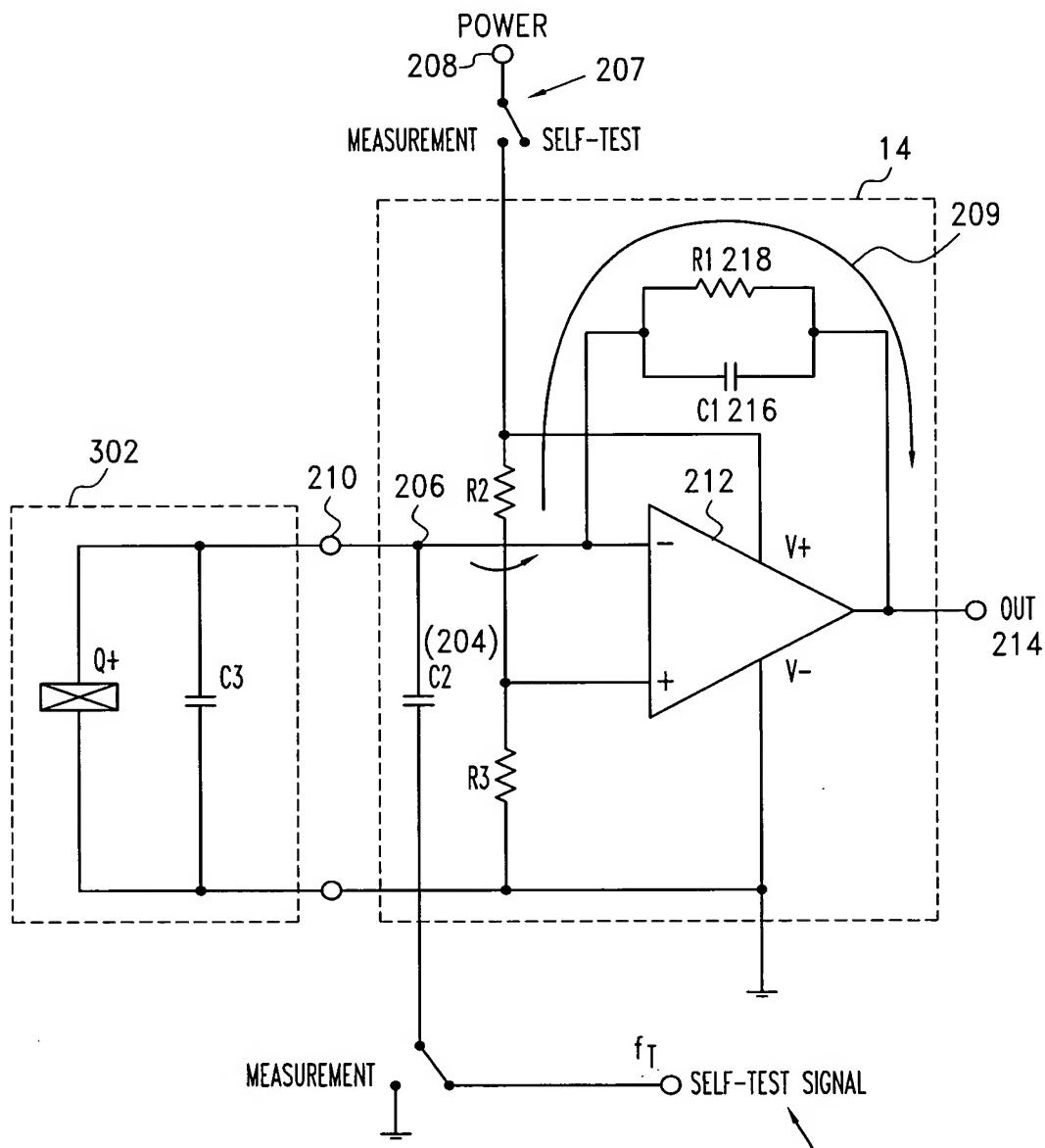


FIG.16

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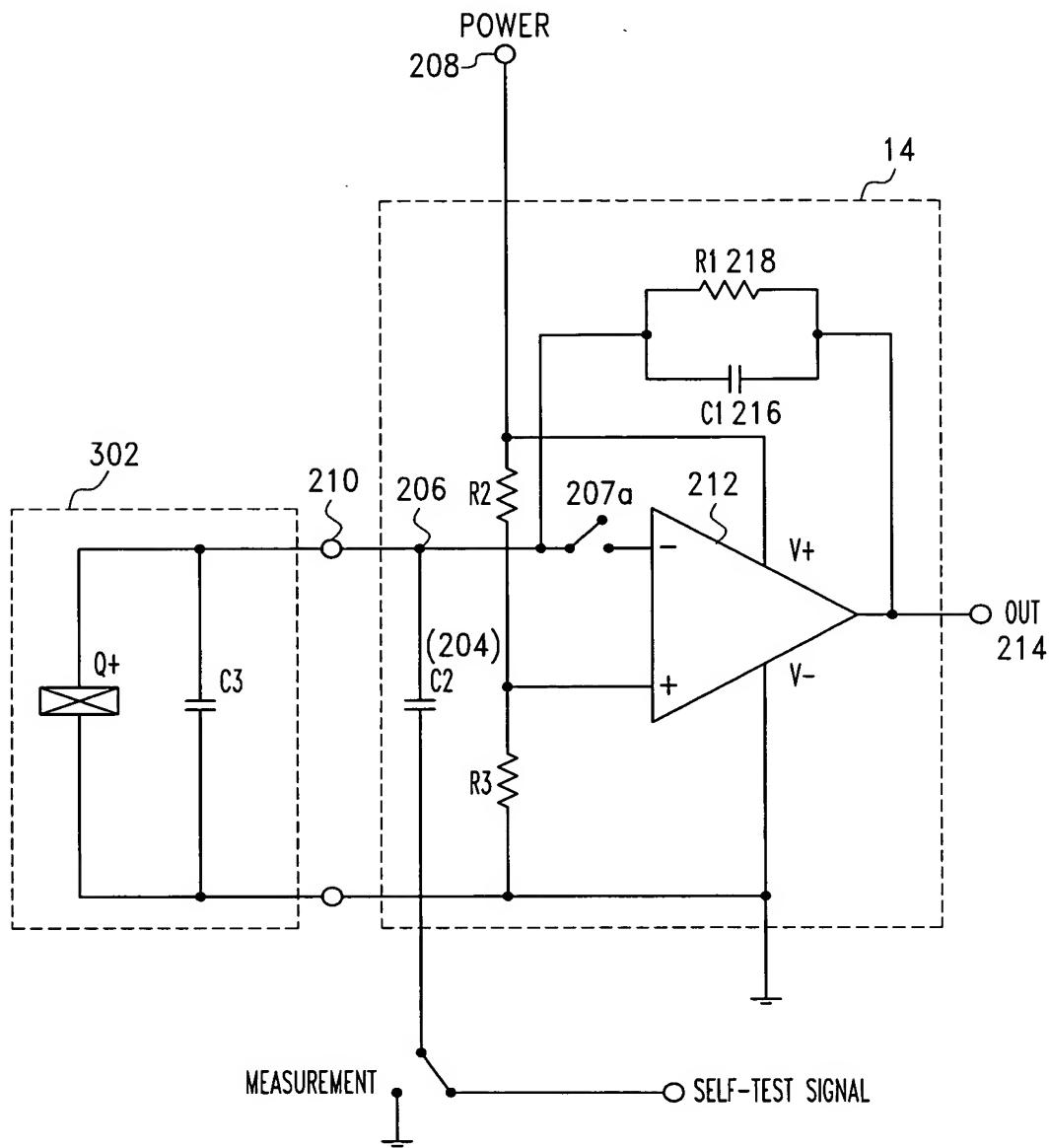


FIG.17

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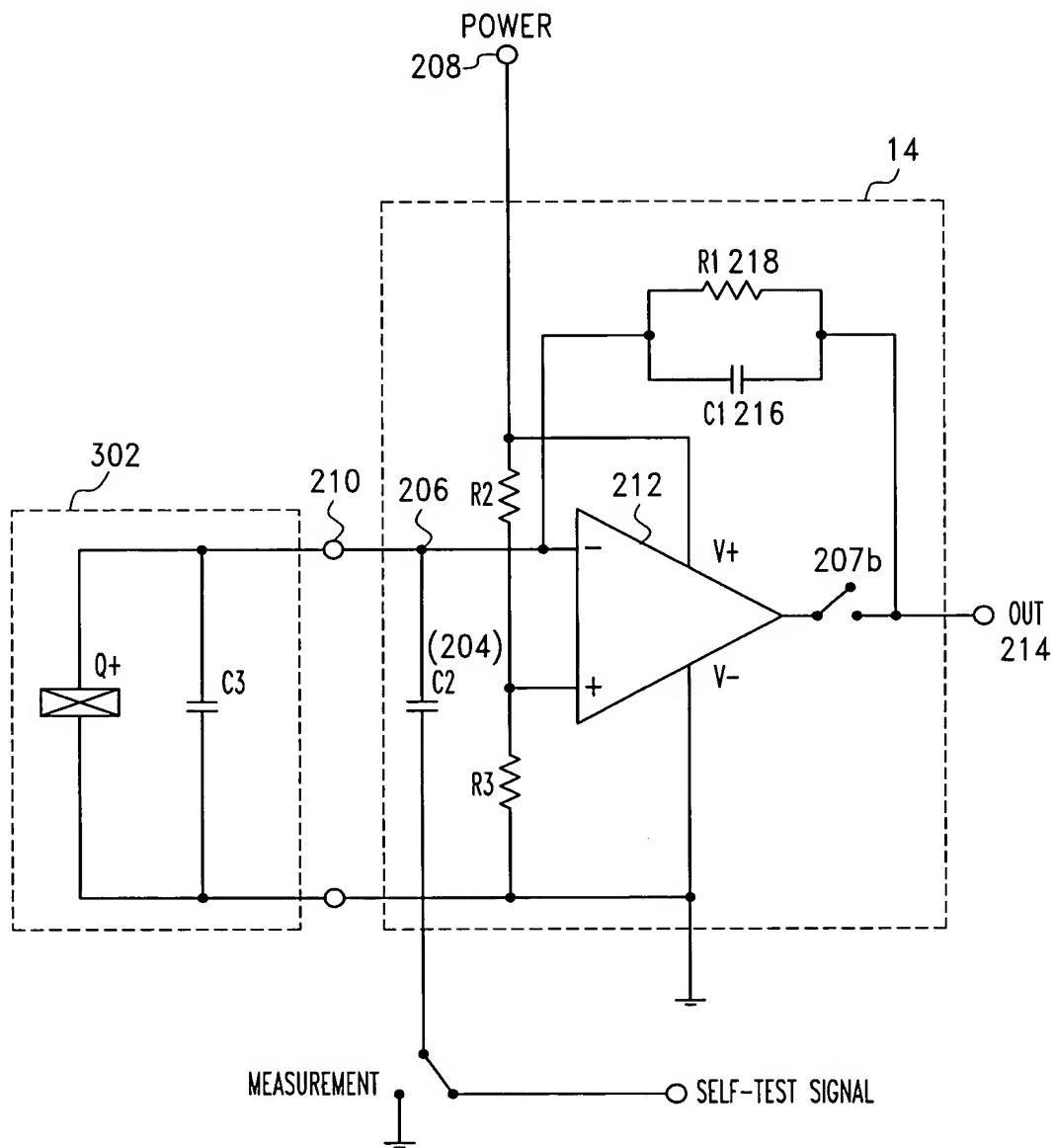
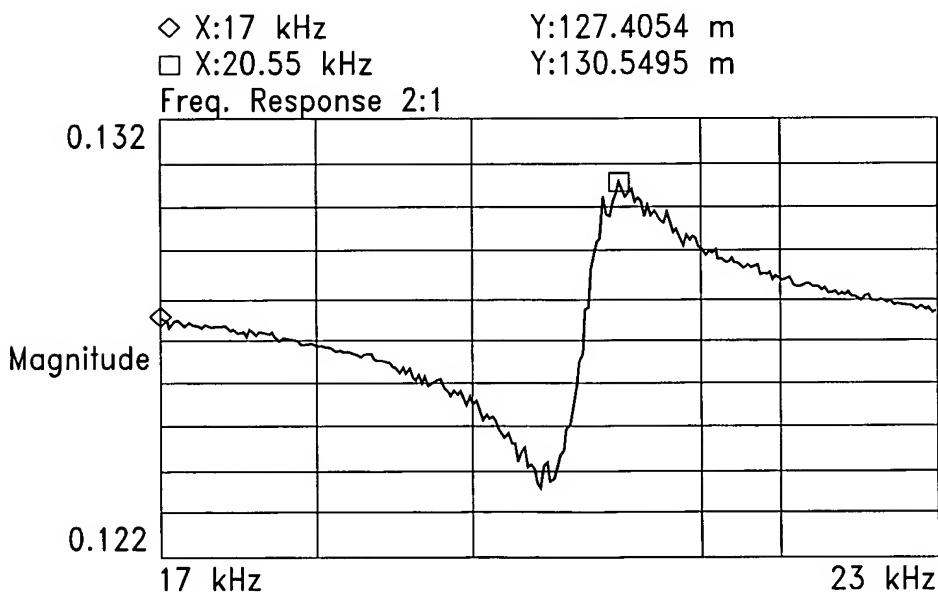
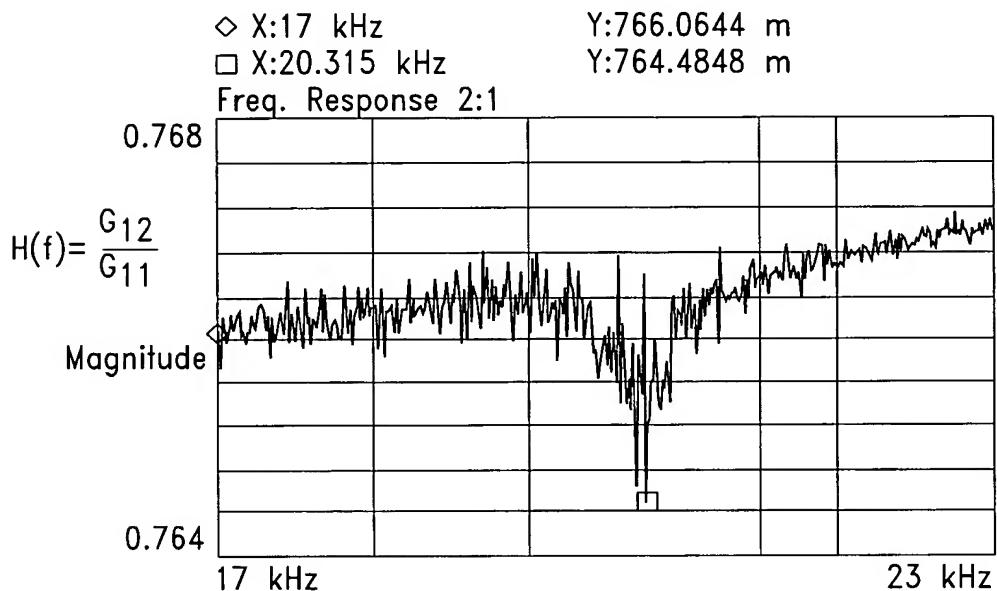


FIG.18

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Title: TRANSDUCER IN-SITU TESTING APPARATUS AND METHOD

Applicant: Richard W. Lally

Docket: 88138.000005

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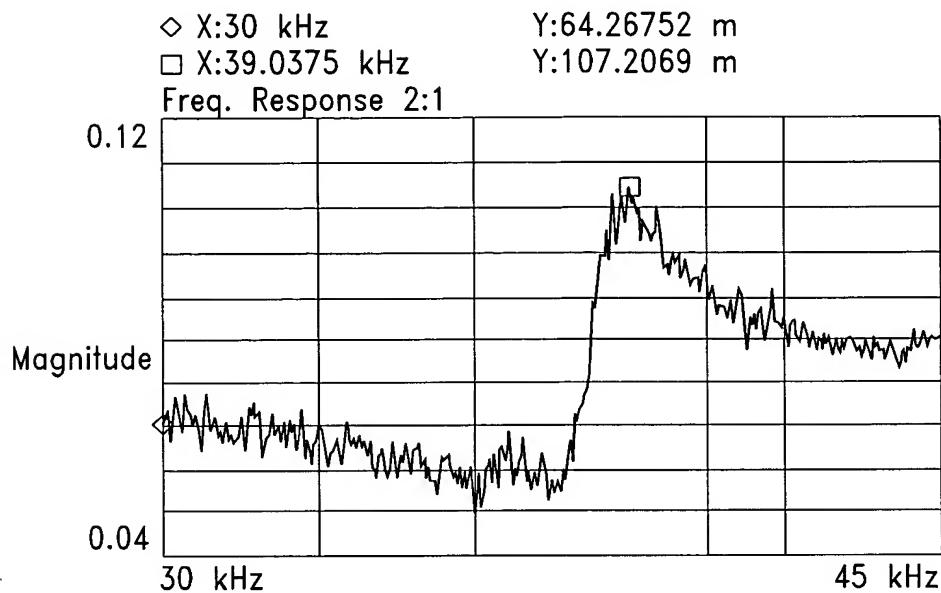


FIG.20A
.5 volt excitation

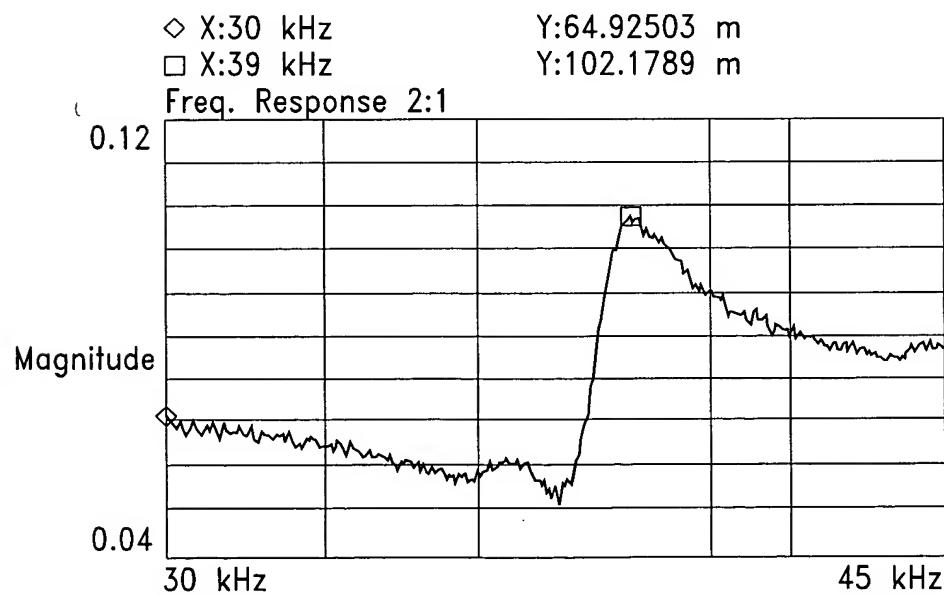


FIG.20B
5 volt excitation

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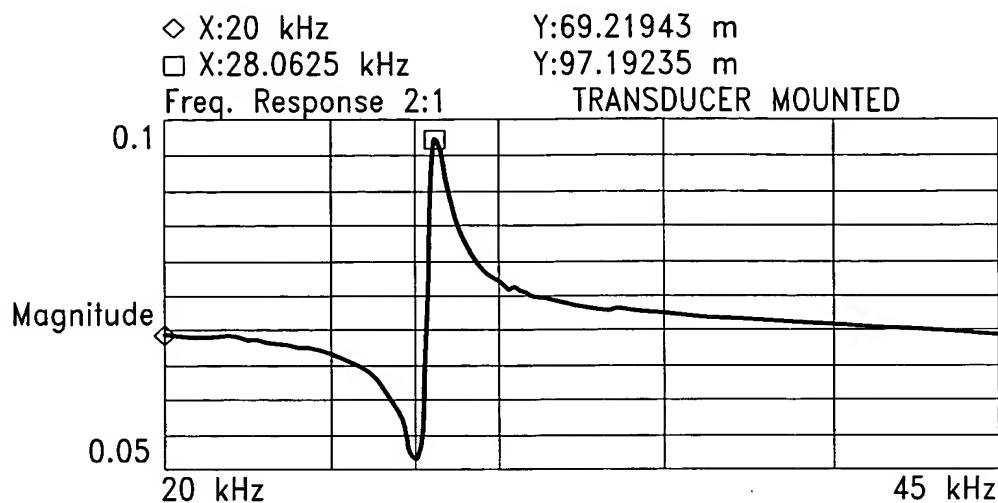


FIG.21A

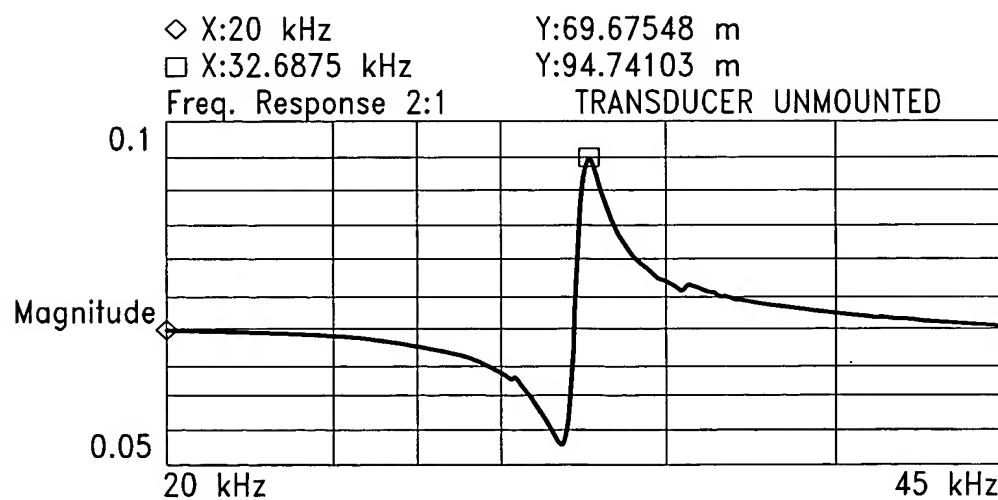


FIG.21B

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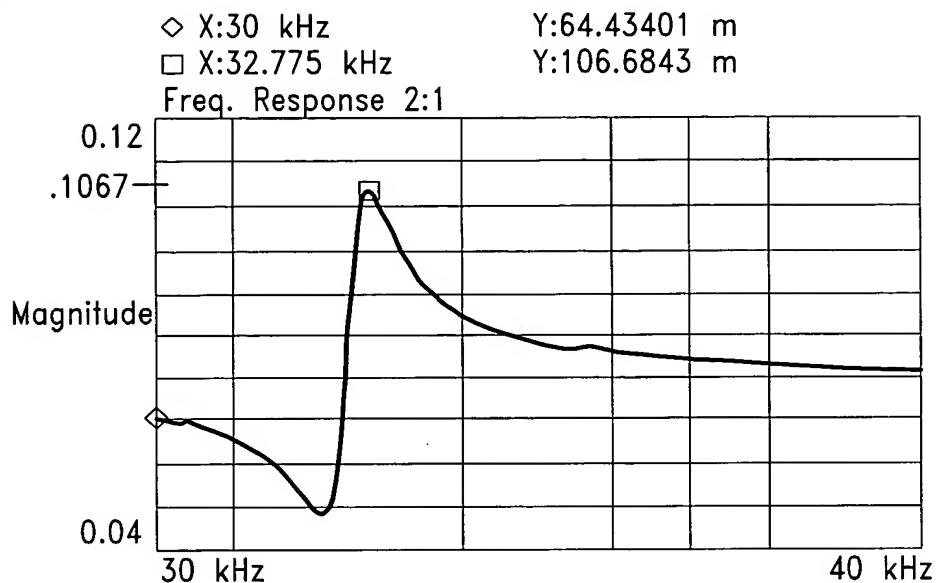


FIG.22A

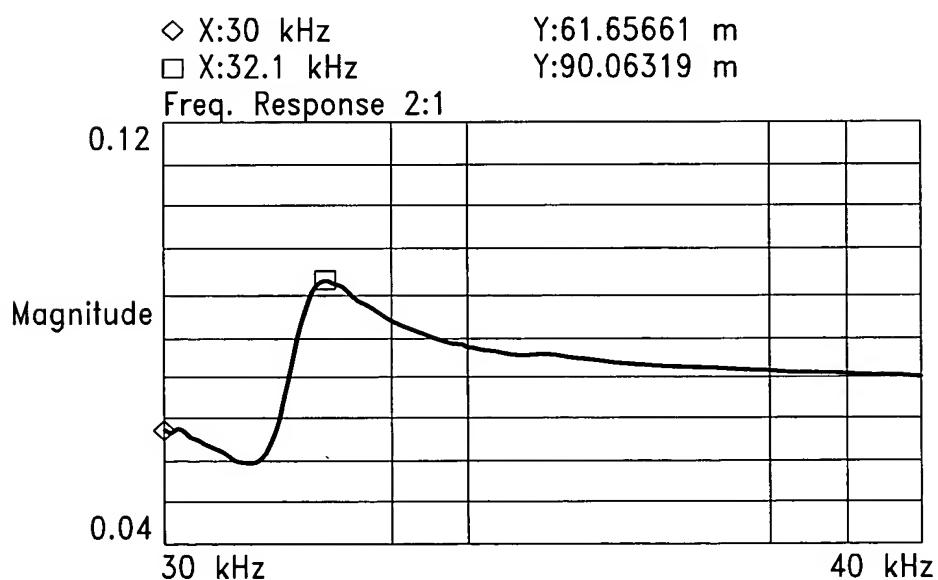


FIG.22B

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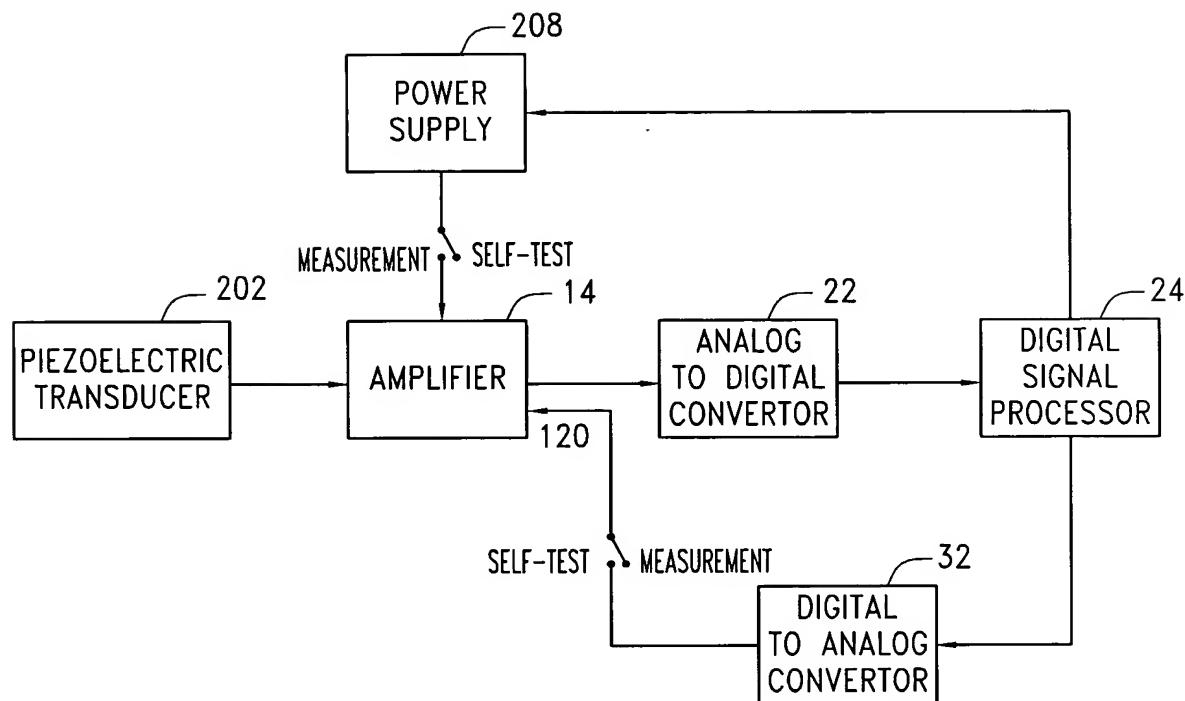


FIG.23

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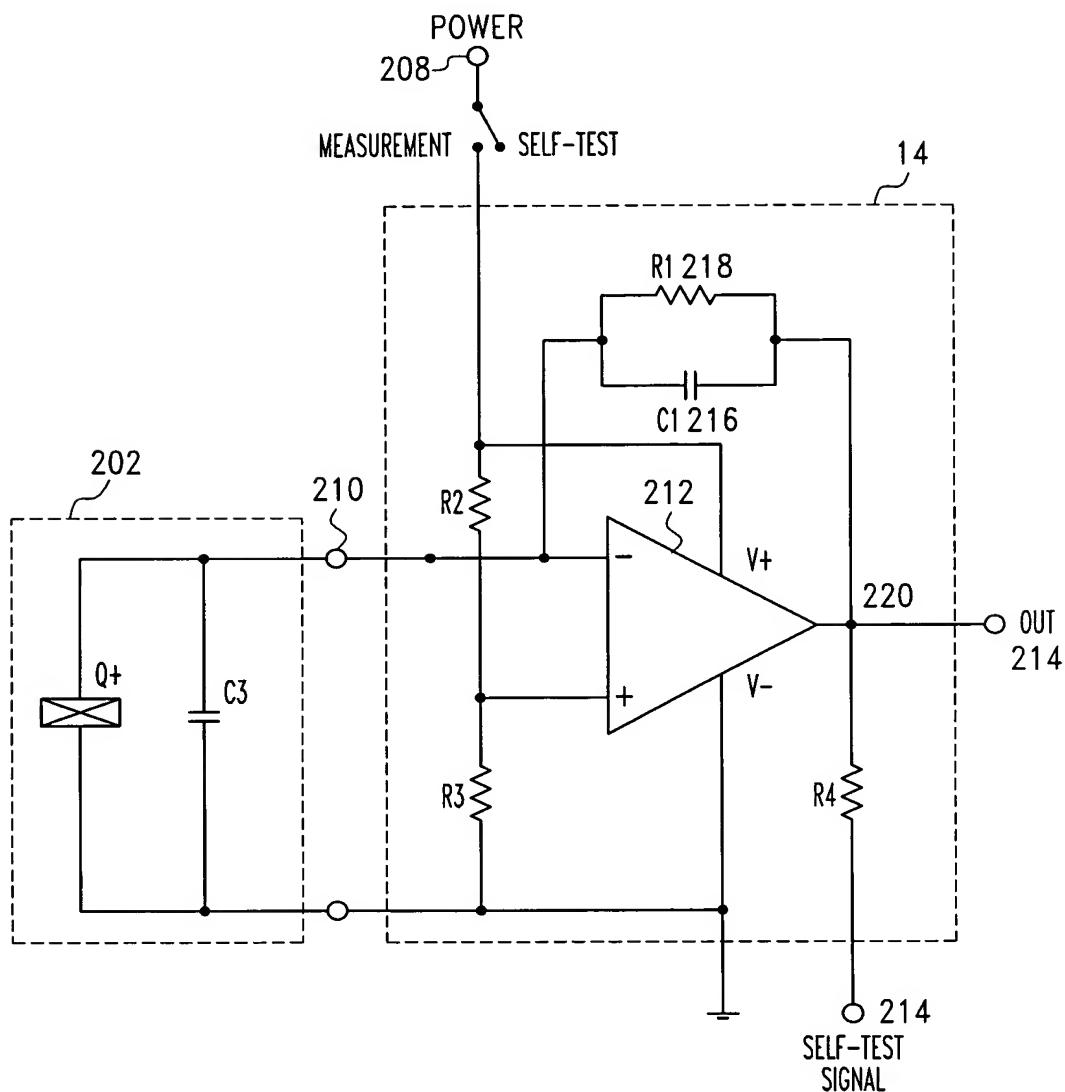


FIG.24

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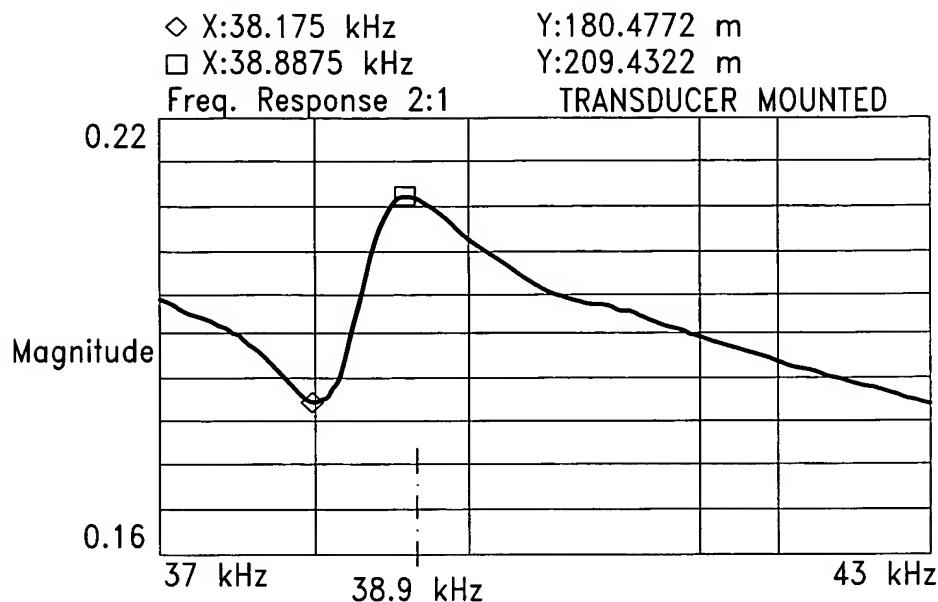


FIG.25A

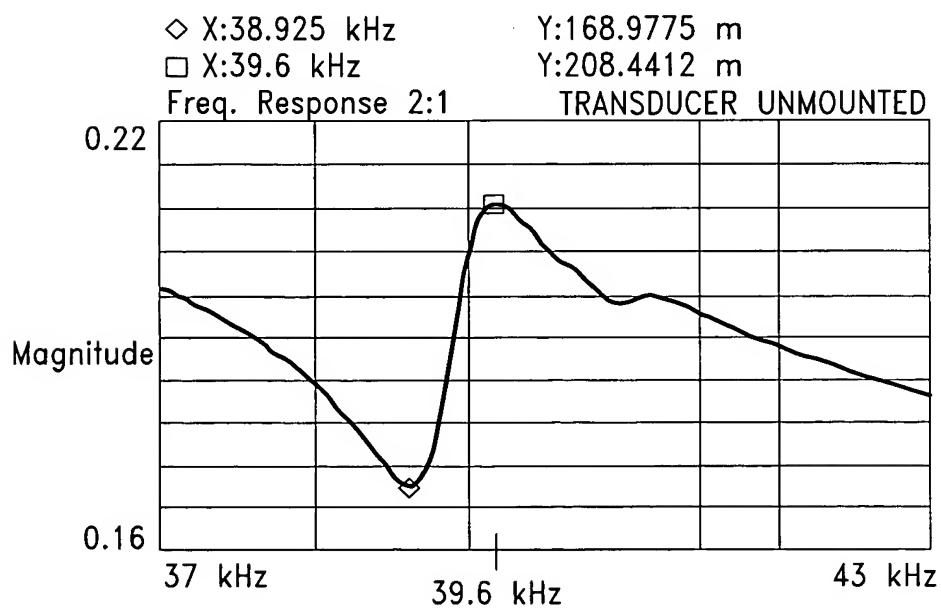


FIG.25B

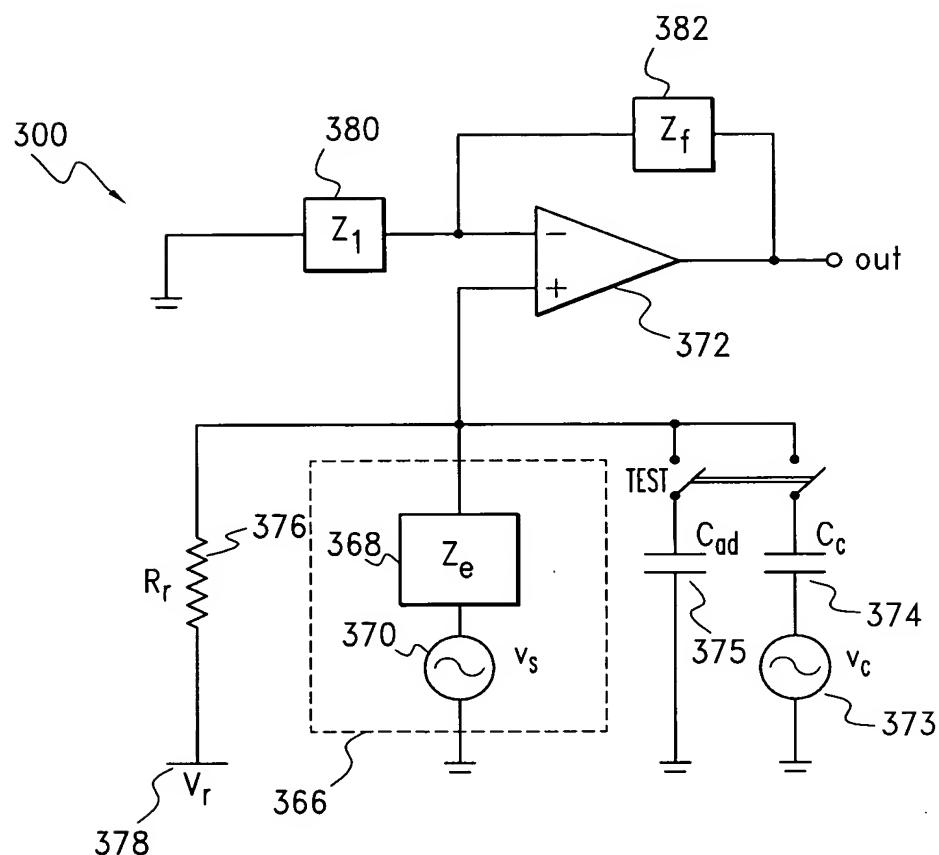


FIG.26

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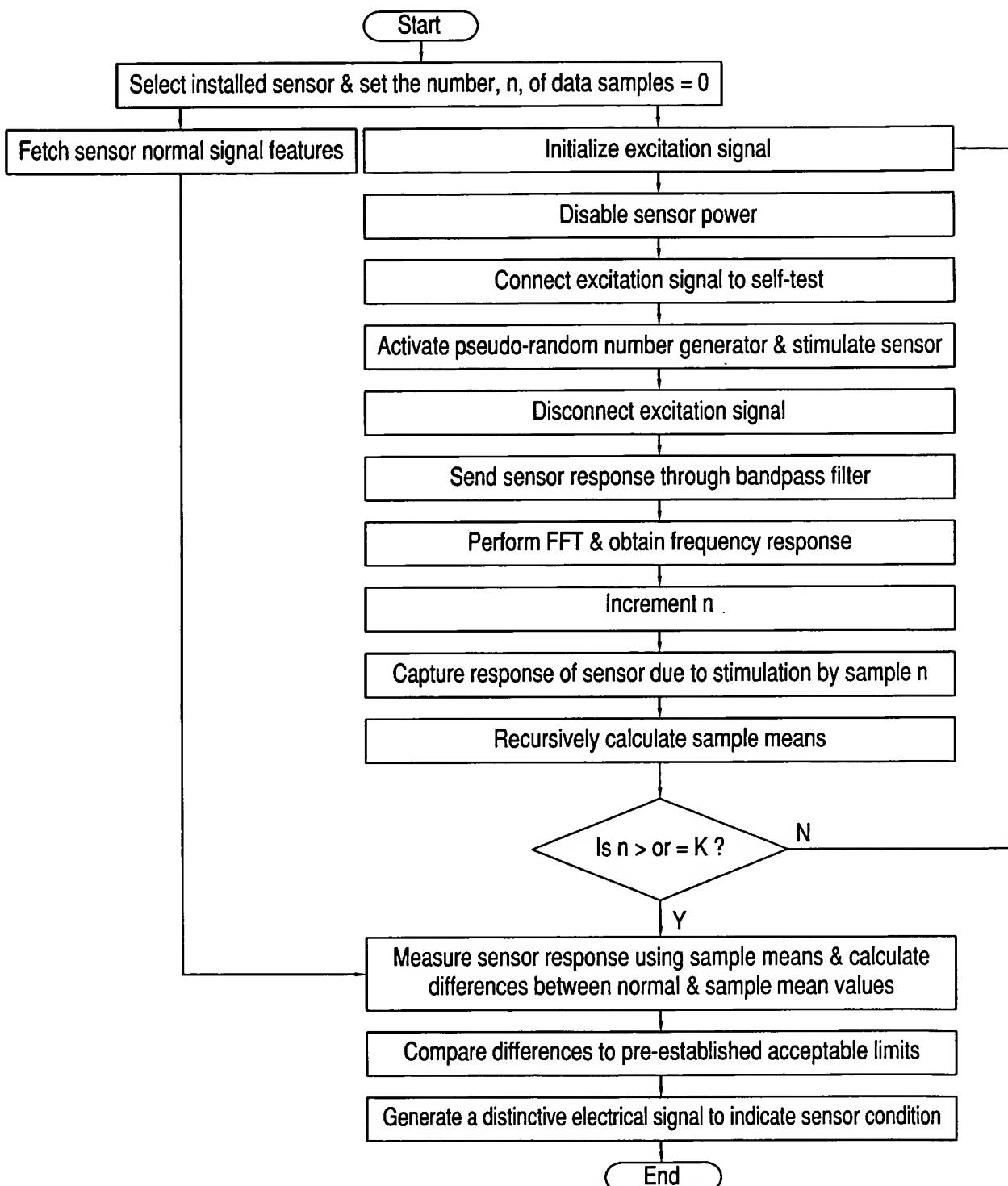


FIG.27
Sensor Self-Test Procedure